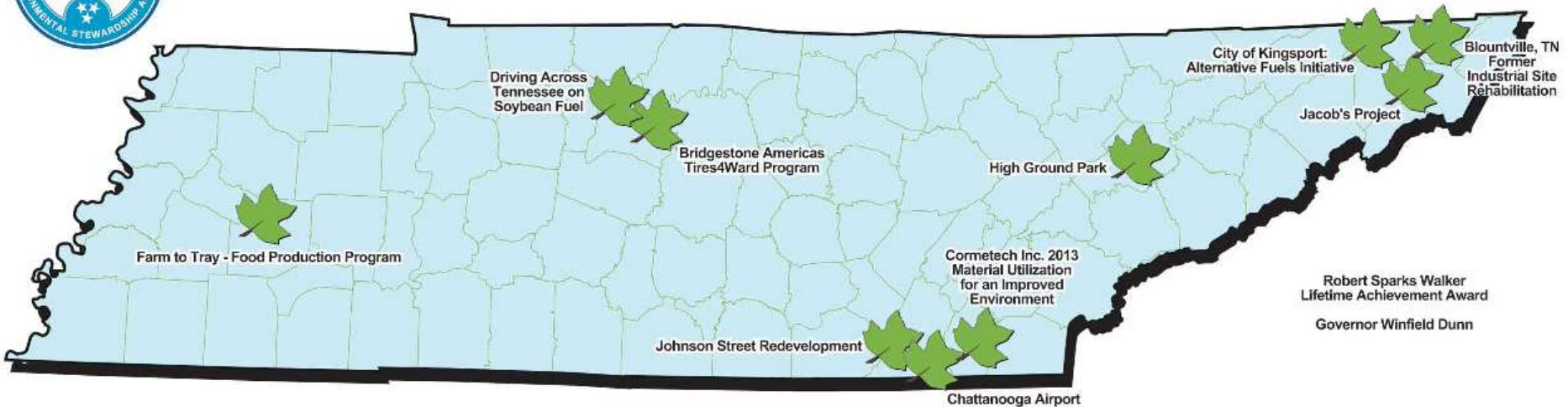






2014 Governor's Award Winners



About the Awards Program

- Recognizes voluntary efforts.
- Honors individuals, organizations, local governments, and companies enhancing our environment and natural resources.
- Represents the very best achievements in Tennessee.



The Governor's Environmental Stewardship Award
for
Building Green

Johnson Street Redevelopment



The Crash Pad, a boutique hostel, and Flying Squirrel, a neighborhood bar and restaurant continue their goal to be an environmental leader in the Chattanooga area. In 2012, the Crash Pad became the World's first LEED Platinum hostel, and in 2013, they partnered with the City of Chattanooga to help solve stormwater concerns on Johnson Street, a beaten down and forgotten street in front of their businesses. With progressive collaboration between the public and private sectors, the Crash Pad and surrounding facilities are examples of how urban developments are improving Chattanooga's stormwater and flood management. The innovative design included the use of engineered soils and pavers to increase infiltration of rain water. The road was built on a three-foot-deep gravel bed intended to hold the first inch of rain water then brick pavers were placed on top to allow the water to percolate down into the ground, filtering the whole time. The Crash Pad was awarded the 2012 Precast Concrete Institute Award and was originally a Brownfield rehabilitation site.





Photo Credit: Mandy Rhoden



Photo Credit: Mandy Rhoden

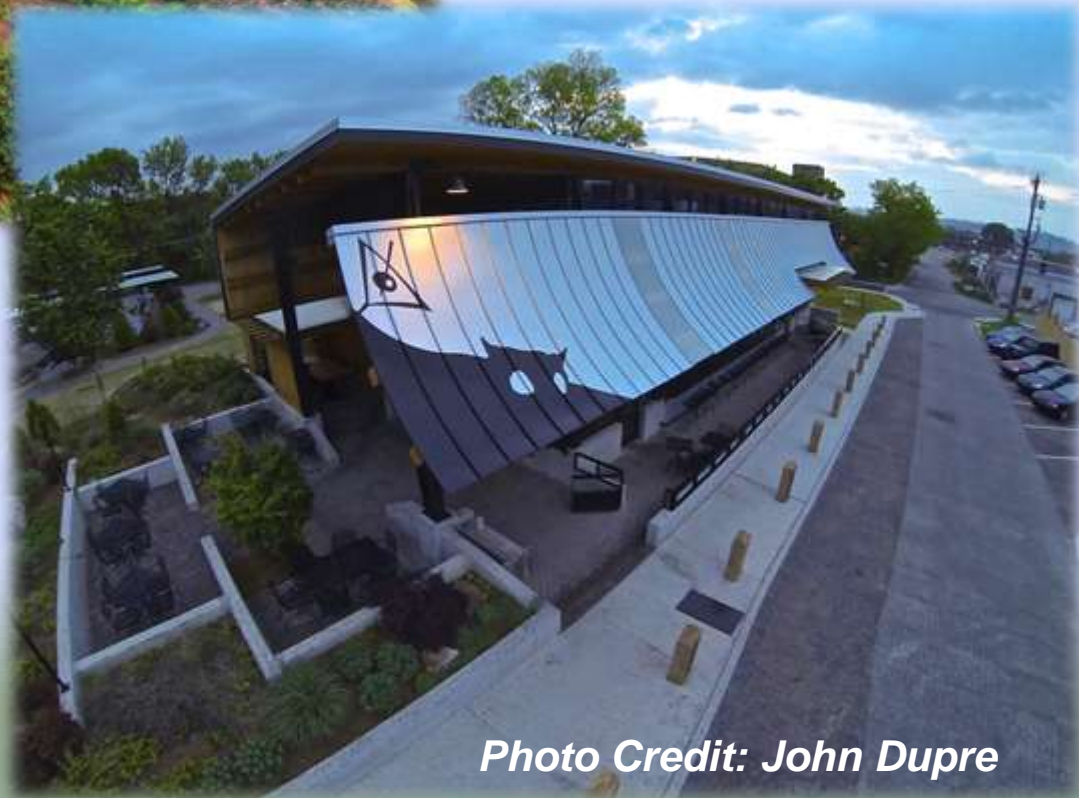


Photo Credit: John Dupre



Photo Credit: Mandy Rhoden



Photo Credit: Mandy Rhoden



Photo Credit: Mandy Rhoden

The Governor's Environmental Stewardship Award for Clean Air

City of Kingsport
Alternative Fuels Initiative



The City of Kingsport began their endeavor over six years ago. Since the first three propane conversions in 2008, they have added several other propane vehicles and their own private refueling infrastructure. Today, their program has grown to over 40 vehicles that run on propane, which includes police cruisers, work trucks of several types, and propane-powered mowers. In addition, they have several hybrid vehicles, including one heavy-duty hybrid bucket truck, as well as three all-electric Nissan Leafs, one of which is a police car used for code enforcement. The gasoline project alone has saved the city almost \$27,000 in fuel costs. Over 36,000 gallons of gasoline use has been eliminated and 44,000 gallons of cleaner-burning propane has been used reducing their CO2 emissions by over 85,000 pounds (43 tons).













The Governor's Environmental Stewardship Award
for
Energy and Renewable Resources

Whites Creek High School
Driving Across Tennessee on Soybean Fuel



Students from Whites Creek High School recently drove across Tennessee on fuel that they made from agriculture product, soybeans. They were able to achieve this by using 15 bushels of donated soybeans and converting them into biodiesel in their energy laboratory at the high school. They were able to extract 12 gallons of biodiesel from their process which allowed them to drive across Tennessee from Kentucky to Alabama in a Ford F250 farm truck. Along the route, they traveled to other high schools and the students taught other FFA members the mechanics of biodiesel production with their mobile lab. Whites Creek High School has a three-year program called Academy of Alternative Energy, Sustainability and Logistics. During the three year program, they study wind energy, solar energy, biodiesel, ethanol, the hydrogen car, nuclear energy, greenhouse gas, and have hands on experience on the adjacent farm to the high school.



is going



Whites Creek FFA

ville, Tennessee
ative Energy
ville Public











The Governor's Environmental Stewardship Award
for
Environmental Education and Outreach

Jacob's Project



“Jacob's Project” is a multi-faceted program that started out from the tragic death of Jacob Francisco. In 2004, Jacob died from complications from e-coli exposure when he was six years old. Desiring to prevent other’s similar suffering and loss, his family has embarked upon this growing education and awareness program that has risen over \$60,000 and includes: ETSU Foundation for Jacob Francisco Lectureship Series, Quillen College of Medicine; Stop Foodborne Illness, a national nonprofit public health organization dedicated to safe food, advanced education and assistance for victims of foodborne illness; ongoing educational programs that have reached nearly 2,000 local schoolchildren to date; and collaboration with the Boone Watershed Partnership and the Johnson City to develop an environmental education park at Sinking Creek wetlands. As a result, the Sinking Creek Restoration Project eliminated twenty-four septic tanks to sewer connections, repaired four septic systems outside of city limits, fenced a tributary flowing through a cattle pasture, and expanded wetlands by 2.1 acres by the end of September 2013. Educational signs explain the probable causes of the contamination to Sinking Creek and how it is being restored. The park also provides information about the plants, animals, and the geographical and geological features within it. The restoration of Sinking Creek and the development of an environmental education park is a perfect legacy for how Jacob lived: exploring, learning, caring.







WARNING

This body of water contains elevated levels of fecal (sewage) bacteria. Contact might increase your risk of illness.

Avoid swimming, wading, or fishing in these waters

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
VS





The Governor's Environmental Stewardship Award
for
Environmental Education and Outreach -
Schools

Liberty Technology Magnet School
Farm to Tray – Food Production Program



Liberty Technology Magnet School “Farm to Tray” Program teaches science, math and responsibility to its students by growing fresh produce for Liberty and five other district school cafeterias. Students learn the science behind growing a variety of produce that is served to students, teachers, and staff. In addition to providing high quality produce to the Liberty campus, the student-grown food is purchased by the Jackson-Madison County School System Nutrition Department and distributed to other schools. By locally producing the food, pollution associated with trucking and highway transportation is avoided. It also arrives immediately after harvest to the lunch room table, so nutritional value remains high. Last year alone, students grew 2,664 heads of Rex Bibb lettuce, 573 pounds of cucumbers, and 695 pounds of tomatoes. To promote education awareness, display boards and signage proudly state that the food is locally grown by Liberty Tech students.

The program is self-sustaining and currently operates three greenhouses. Each greenhouse focuses on hydroponic and aquaculture production. The greenhouses act as an educational class room and business venture tool for the high school students. To ensure quality and safety, the students learn and follow USDA protocol for Good Agricultural Practices. The program provides produce to seven selected JMCSS elementary schools. Liberty students take freshly grown produce to the elementary schools and teach a class on nutrition to the younger students. Teachers at the elementary schools reported that more fresh fruits and vegetables were being consumed as a result of the teen’s visit and cafeterias experienced a 25% increase in the number of salads and vegetables selected for lunch by children pre-K through 1st grade and lower food waste.















By the Numbers

For the 2012-13 school year, Liberty Technology Magnet High School grew:



4,222

heads of Bibb lettuce



573

pounds of cucumbers



695

pounds of tomatoes

The Governor's Environmental Stewardship Award
for
Land Use

Blountville, TN

Former Industrial Site Rehabilitation Project



The Davis Pipe Site in Sullivan County utilized a 60-acre parcel of land for fabrication of welded stainless steel and alloy pipe and fittings from 1977 to 2004. The site sat vacant for eight years. In 2012, the site was approved for a Brownfield redevelopment by way of Birch Street Properties, LLC. The first Resource Conservation and Recovery Act brownfield agreement in the State of Tennessee with the cooperation and collaboration of the TDEC Division of Solid Waste Management, TDEC Division of Remediation, Region IV EPA, Sullivan County officials and J.A. Street & Associates – the result of a true public/private partnership. The site contains seven permanent industrial buildings and several secondary structures, including an office trailer, guard shack, diked containment area, three wooden sheds, and an engineered liner system that covers a closed-in-place hazardous waste management unit. Surveys indicated that there was not significant contamination and that it was suitable for restricted redevelopment. This project has developed numerous public and private relationships. Birch Street Properties has developed relationships with the county government, the local community, and the business community. A special relationship has developed between Birch Street Properties and a local church outreach program that is occupying one of the buildings. The church outreach group assists with general site maintenance in lieu of paying rent for an open space. This private/public partnership has allowed these businesses to operate on site and employ 60-plus persons which in turn contribute to the economic base of the small town of Blountville.



Birch Street Properties

(former Davis Pipe site)

Legend

Google earth

300 ft

Oak St













The Governor's Environmental Stewardship Award
for
Materials Management

Cormetech Inc.

2013 Material Utilization for an Improved Environment

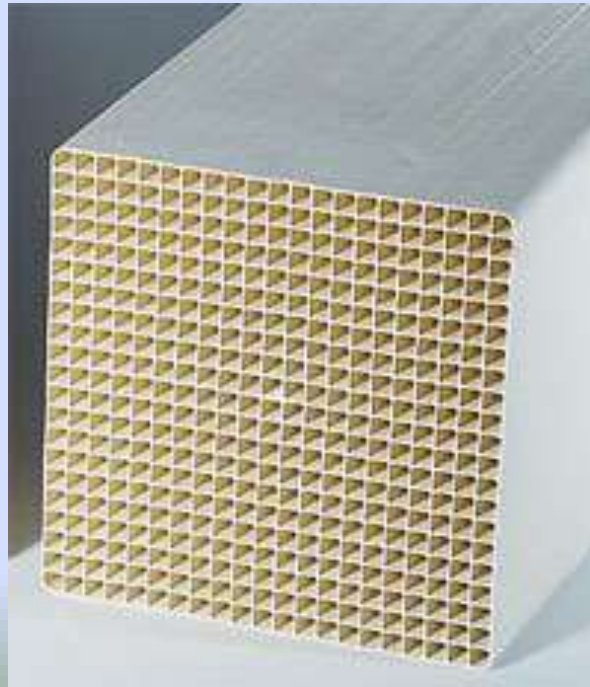
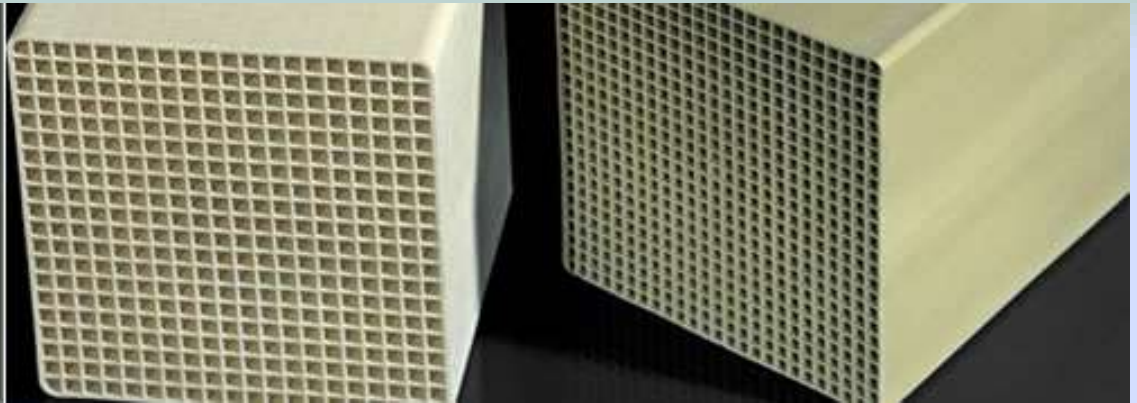


Cormetech's highly automated, state of the art SCR catalyst manufacturing facility is located in Cleveland, Tennessee. The high-tech and flexible manufacturing process produces high volumes of catalyst for worldwide emissions control applications in coal and gas fired power plants as well as petrochemical and refinery processes. Continuous Improvement initiatives that were completed in 2013 include: catalyst waste reduction, hazardous waste stream elimination, module paint elimination, and recovery and reuse of excess liquid solutions. Efforts in 2013 identified and redirected tons of catalyst material that was destined for landfills. This catalyst waste is now reprocessed into their manufacturing process. Catalyst waste refers to product that has experienced any level of processing beyond the raw material, but does not meet first quality assurance standards. Recovery and rework of this material will result in roughly \$100,000 annual savings in raw materials. The total number of hazardous waste streams was reduced from seven to two.

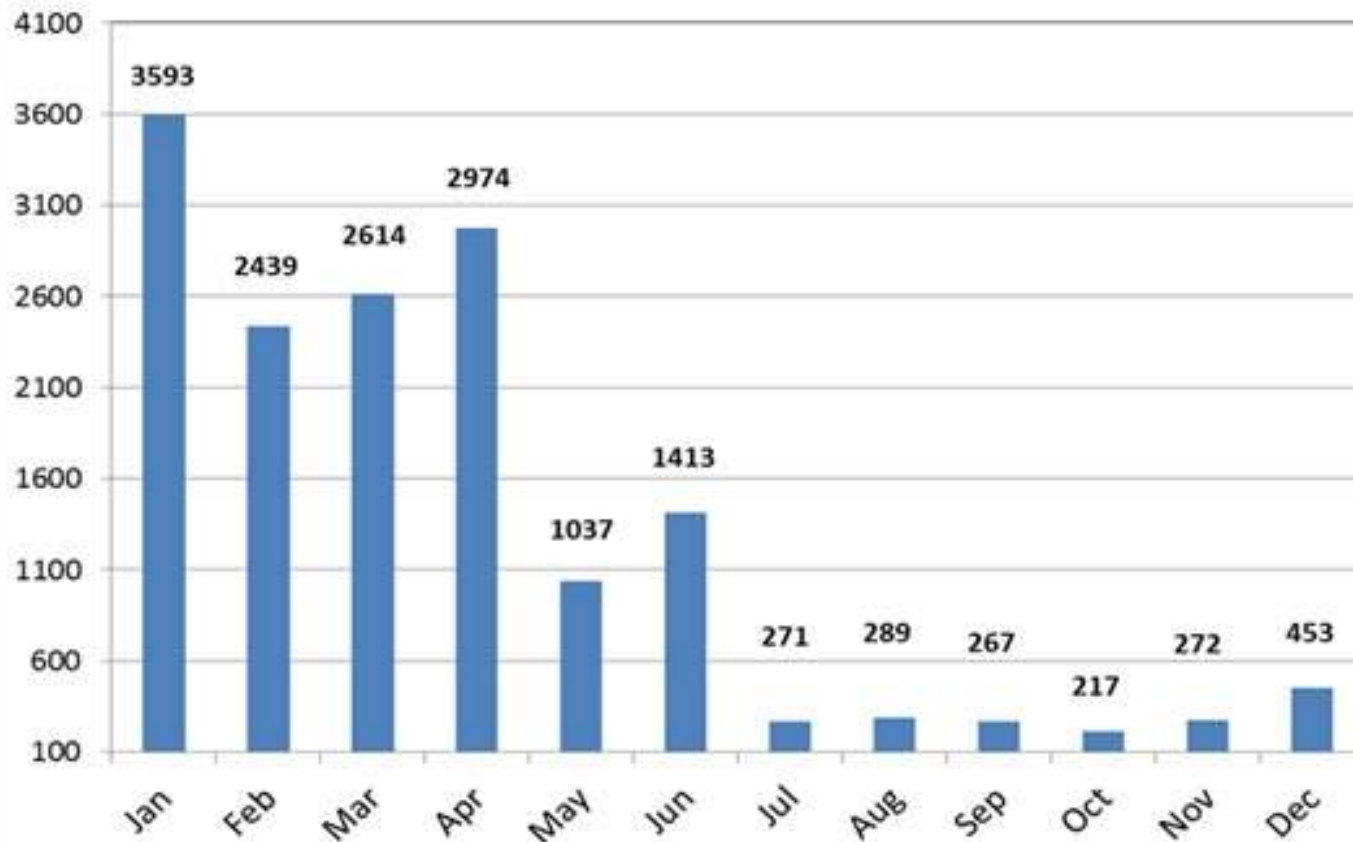




Honeycomb Catalysts



2013 Monthly Catalyst Waste (kg)



1st Half

*Average 2345
kg/month*

2nd Half

*Average 295
kg/month*







The Governor's Environmental Stewardship Award
for
Natural Heritage

High Ground Park



High Ground Park (Knox County) - High Ground Park transformed once neglected and overgrown remnants from the Civil War into a park of beauty and substance, preserving its integrity as a historic resource and providing the public with an open space and a rich cultural asset. The newly constructed 39-acre passive use park captures Fort Higley, a former Civil War Fort. Parking with a trailhead and trail system include interpretive exhibits that guides visitors to the fort comprised of earthworks constructed by the Union Army days before Knoxville's most well-known Civil War battle, the Battle of Fort Sanders.

The firm Carol R. Johnson Associates was hired by the Aslan Foundation to develop and plan and program for the site. The outcome of these planning efforts is High Ground Park which opened in 2013. The park not only preserves and enhances the native landscape through low impact design, but also protects high-integrity remnants of Civil War defensive emplacements such as rifle trenches, a cannon redoubt and strategic military lines of sight. The parking lot is comprised of pervious asphalt; site lighting at the parking area consists of energy efficient LED fixtures with renewable wood bases; a seeded stone aggregate sidewalk guides visitors to a stone trailhead and welcoming area where stacked stone site walls and columns serve as a more formal entrance into the site; and a traditional double rail wood fence runs along the primary pathway. Most invasive species were eradicated which had overtaken the forest. This clearing along with new, native plantings, resulted in higher quality woodland. Where there was once a tangled mat of invasive vegetation hiding one of Knoxville's most culturally significant landmarks, now sits a high quality park providing the public with opportunities for learning and an appreciation of nature and history.





A MAP OF THE SIEGE OF KNOXVILLE, 1863-1864 - SHOWING THE STREETS AS THEY ARE TODAY

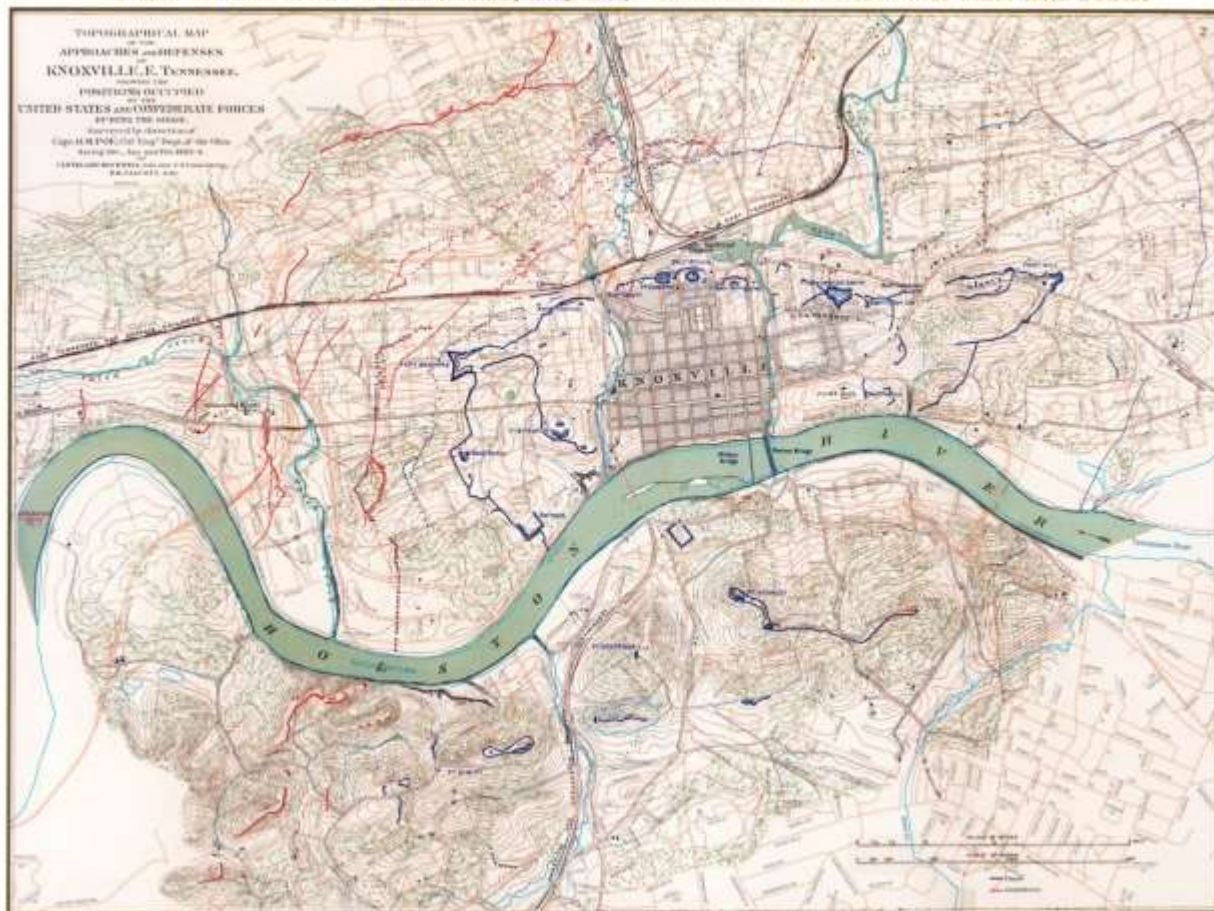




Photo: Rick Kasper
 Photo: Rick Kasper
 Photo: Rick Kasper



Before



After



Before



After



Before



After



Before



After



Sustainable Park Materials



Sustainable Park Materials

The Governor's Environmental Stewardship Award
for
Sustainable Performance

Bridgestone Americas
Tires4Ward Program



Bridgestone Americas made the commitment to capture one spent tire for every new tire the company sold. This commitment spanned all product categories from 15" fitments on cars like the Prius to the massive agriculture and mining tires that are measured in feet and not inches. Bridgestone Americas collaborates with the River Network, a conglomerate of approximately 2,000 state, regional and grassroots organizations who protect our nation's waterways. The assistance Bridgestone provides in picking up the tires that are pulled from natural areas and proper recycling is at no cost to any clean up group. The Tires4Ward program partners with over a hundred non-profit organizations, citizen groups, and communities nationwide. To date, they have supported over 200 clean-ups and sent nearly 70,000 tires recovered from clean-up activities to various valuable use markets like rubberized asphalt, mulch, and athletic surfaces.



BRIDGESTONE

TIRES4WARD™

PUTTING OLD TIRES TO GOOD USE

OneTeamOnePlanet.com











The Governor's Environmental Stewardship Award
for
Pursuit of Excellence

Chattanooga Airport
Pursuit of Excellence



Over the past 40 years, Chattanooga has transformed itself from one of the most polluted cities in the nation to one of the cleanest. More than six years ago, The Chattanooga Metropolitan Airport Authority pledged to reduce its environmental footprint and started small by initiating sustainable practices both on the airfield and within the commercial terminal. The CMAA received the 2013 Governor's Environmental Stewardship Award for Sustainable Performance. Since then, they made significant strides including lighting improvements and pavement rejuvenation, the installation of a 2.1 megawatt solar farm which generates the equivalent of 85 percent of the airport's energy consumption, the first aviation facility in the world to achieve LEED Platinum certification, along with two LEED Gold certified hangars, installation of gate electrification equipment, a national water quality demonstration project, and a terminal renovation. In February 2014, the airport received the prestigious "Jay Hollingsworth Speas Airport Award". In addition to these major projects, the airport has developed a recycling program to reduce waste and the airport provides recycling bins throughout the terminal and in office areas. Materials recycled at the airport include paper, cardboard, aluminum, plastic, light bulbs and debris from maintenance, construction and demolition projects. The CMAA is dedicated to preserving the environment by reducing the airport's carbon footprint and these projects prove that commitment.















1.1 Megawatt Solar Farm





A photograph of a twin-engine aircraft on a runway at night. The aircraft's landing lights are on, creating a bright starburst effect. The runway is illuminated with various lights, and a water tower is visible in the background.

CMAA replaced incandescent lights with LED's on the airfield.

A photograph of a twin-engine aircraft on a runway during the day. The aircraft is facing the camera, and its landing gear is visible. The runway surface appears to be a mix of asphalt and gravel. In the foreground, there are several small, round, red lights.

CMAA replaced traditional coal tar with an environmentally safe product. In addition, CMAA recycles and reuses all old asphalt.



Preconditioned Air Units (PCA):

Supply heated / cooled air to parked aircraft while passengers are boarding or exiting the plane.

Ground Power Units (GPU):

Enables aircraft to forego the use of auxiliary engines while parked at the airport and reduces jet fuel consumption.







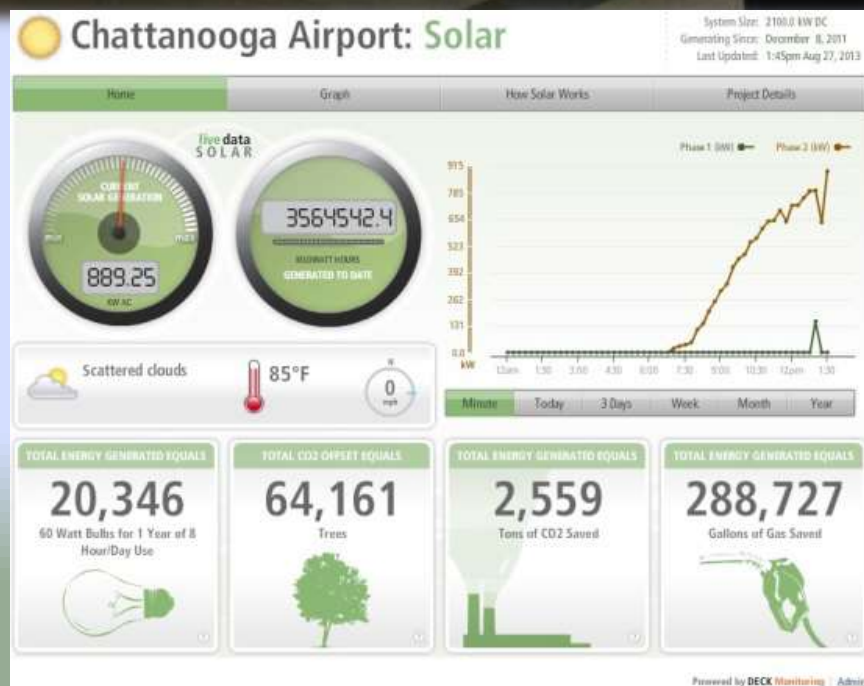
**Commercial Terminal
Renovation**



Recycle Program



Educating and Informing the Public



South Chickamauga Creek

Green Infrastructure Project

1001 Airport Rd, Chattanooga Airport (CHA), Chattanooga, TN 37421, USA

Brainerd Hills

© 2013 Google

Google earth



Robert Sparks Walker Lifetime Achievement

Governor Winfield Dunn





Commissioner Robert J. Martineau, Governor Windfield Dunn, Governor Bill Haslam

Dunn Center at Austin Peay State University



Ribbon cutting for Winfield Dunn Parkway in Sevier County



Winfield Dunn Golf Course at Pickwick Landing State Park



Trailblazing Tennessean in office



... and in the field



Gov. Dunn leads a mounted expedition into Savage Gulf

First Lady Betty Dunn knew her way around the outdoors!





Gov. Dunn and the First Lady understood the importance of clean water for all it's intended uses – from drinking to aquatic habitat and recreation.





Elsie Quarterman, Vanderbilt University professor of biology, inspects one of the giant poplars in Savage Gulf, while Governor Winfield Dunn, left, and Kenny Dale of the National Park Service, look on, during their 1971 trek into the gulf.



Gov. Dunn signs the Tennessee Natural Areas Preservation Act into law with the support of Sen. Bill Bruce, Rep. Victor Ashe and Bob Miller



**State Naturalist
Mack Prichard
tours Gov. Dunn
and members of
the cabinet
through Pinson
Mounds**

**Dr. Ed Thackston,
First Lady Betty
Dunn, and Larry
Richardson after
floating the Little
Tennessee River**





**Governor Dunn signs TN State Parks proclamation flanked by
Park TN State Parks Director Bill Boswell and
Conservation Commissioner Bill Jenkins**





Conservation Commissioner Bill Jenkins and Prof. Elsie Quarterman lead Gov. Dunn through the southern Cumberland Plateau.

Waterfalls protected in Tennessee State Natural Areas



Ozone Falls State Natural Area



Stillhouse Hollow Falls State Natural Area

Unique Formations in Tennessee State Natural Areas



Natural Bridge State Natural Area



Virgin Falls State Natural Area



Walls of Jericho State Natural Area

A Variety of Paths Available for Exploration



Lucius Burch State Natural Area



Laurel Snow State Natural Area



Radnor Lake State Natural Area

**Endangered and Recovered
Species protected in Tennessee
State Natural Areas**



Pyne's Ground Plum
Astragalus bibullatus



Tennessee Coneflower
Echicancea tennesseensis

Celebrating 40 Years of Tennessee State Natural Areas



Tennessee State Parks Says Thank You to Governor Dunn



**2014 Robert Sparks Walker Lifetime
Conservation Achievement Award Recipient**



Governor Winfield Dunn

2014 Governor's Environmental Stewardship Awards

Class Photo

